

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A thermally zoned substrate holder, comprising:
a base upper portion having top and bottom surfaces, the top surface configured to support a substrate and the bottom surface having a recess formed therein;
a plurality of temperature control elements inside the base recess, each element having a top surface seated in the recess and a bottom surface forming a floor of said recess;
at least one substantially solid and thermally insulating material, thermal insulator having a lower coefficient of thermal conductivity than a material of the base, the at least one insulator being positioned within said recess and disposed between the plurality of temperature control elements and substantially thermally separating the plurality of temperature control elements; and
a base lower portion positioned within said recess and seated to said floor of said recess to substantially fill said recess.

Claim 2 (Currently Amended): The apparatus according to claim 1, wherein first and second of the plurality of temperature control elements are configured to receive separate fluid flows.

Claim 3 (Original): The apparatus according to claim 2, wherein at least one of the fluid flows is substantially circular in the plane of the top surface of the substrate holder.

Claim 4 (Original): The apparatus according to claim 2, wherein the fluid flows are concentric about a central axis of the substrate holder.

Claim 5 (Original): The apparatus according to claim 2, wherein the at least one insulator is concentric with the fluid flows.

Claim 6 (Original): The apparatus according to claim 1, wherein the plurality of temperature control elements each include at least one heating element.

Claim 7 (Original): The apparatus according to Claim 6, wherein each heating element is concentric about a central axis of the substrate holder.

Claim 8 (Original): The apparatus according to Claim 7, wherein the at least one insulator is concentric with each heating element.

Claim 9 (Original): The apparatus according to claim 1, further comprising temperature detectors disposed at predetermined positions in the temperature control elements.

Claim 10 (Original): The apparatus according to claim 2, further comprising temperature detectors disposed at predetermined positions in the temperature control elements.

Claim 11 (Original): The apparatus according to claim 1, wherein the temperature control elements are radially extending.

Claim 12 (Original): The apparatus according to claim 1, wherein the temperature control elements comprise radially extending elements and azimuthally extending elements.

Claim 13 (Currently Amended): The apparatus according to claim 1, wherein the at least one insulator comprises a gas-filled chamber ~~comprises a reflective surface.~~

Claim 14 (Currently Amended): The apparatus according to claim [[15]] 13, wherein the gas-filled chamber comprises a vacuum-filled chamber.

Claim 15 (Canceled).

Claim 16 (Previously Presented): The apparatus according to claim 1, wherein said at least one insulator extends within approximately 1 mm of said top and bottom surface.

Claim 17 (Previously Presented): The apparatus according to claim 16, wherein said at least one insulator has a cross-sectional width of approximately 2 mm.

Claim 18 (Previously Presented): The apparatus according to claim 16, wherein said at least one insulator comprises a reflective surface.

Claim 19 (Currently Amended): The apparatus of claim [[15]] 14, wherein said chamber has a cross-sectional width of approximately 2 mm.

Claim 20 (Currently Amended): The apparatus of claim [[15]] 14, wherein said chamber comprises support material different from said base.

Claim 21 (New): The apparatus according to claim 1,
wherein said recess comprises a first recessed surface for seating said plurality of
temperature control elements and a second recessed surface further recessed from said first
recessed surface and having said at least one insulator seated therein; and
where said base lower portion surrounds a portion of said thermal insulator and has a
bottom surface substantially coplanar with said bottom surface of the base upper portion.

Claim 22 (New): The apparatus according to claim 1,
wherein said plurality of control elements each include a plurality of fins; and
each of said plurality of control elements is positioned equidistant from said top of the
base upper portion to said bottom of the base upper portion.

Claim 23 (New): The apparatus of claim 1, wherein said thermal insulation is a
substantially solid material.